HAZTE	CCH <sup>®</sup> Mater	ial Safety Dat	a Sheet	Page 1 of 4	
SYSTEM	MS, NFPA	HMIS		PPE (See Section 15)	
<b>INC</b>	. тм	Health Hazard Fire Hazard Reactivity			
Section 1. Cher	nical Product and Company	Identification			
Trade Name	Cobalt Test		Part #	RE2029	
Manufacture			CAS #	67-56-1 / 540-72-7	
Manufacturer	Haztech Systems, Inc. PO Box 929	RTECS	PC1400000 / XL2275000		
Commercial Name	Mariposa, CA 95338		TSCA	TSCA 8(b) inventory: methyl alcohol sodium thiocyanate	
Synonyms			CI #		
Chemcal Family				mergency contact CHEMTREC at 800-424-9300	
Chemical Formula	ıla CH3OH, NaCNS		HazTech Systems, Inc. 800-543-5487 Spectrum Chemical Mfg. Corp. 310-516-8000		
Supplier	Spectrum Chemical Mfg. ( 14422 S. San Pedro St. Gardena, CA 90248	Corp.	spectrum C	Liternicai wirg. Corp. 510-510-8000	

Material Safety Data Sheet

Section 2. Composition and Information on Ingredients

	Exposure Limits					
Name		CAS #	TWA (mg/m3)	STEL	CEIL (mg/m3)	% by Weight
Methyl alcohol67-56-1Sodium thiocyanate540-72-7			260	325		79% 21%
Toxicological Data onMethyl alcohol: ORAL (LD50): Acute: 5628 mg/kg (Rat.).Sodium thiocyanate : ORAL (LD50): Acute: 764 mg/kg (Rat). 362 mg/kg (Mouse).IngredientsDERMAL (LD50): Acute: 15800 mg/kg (Rabbit.).ORAL (LD50): Acute: 764 mg/kg (Rat). 362 mg/kg (Mouse).						
Section 3. Hazards Identification						
Potential Acute Health Effects	Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death.					
Potential Chronic Health Effects						

Cobalt Test

Section 4. First Aid Mearsures			
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.		
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.		
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.		
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.		

# Section 5. Fire and Explosion Data

- 1	
Flammability	Flammable. (methanol)
Auto-Ignition Temperature	464°C (867.2°F) (methanol)
Flash Point	CLOSED CUP: 12°C (53.6°F). OPEN CUP: 16°C (60.8°F). (methanol)
Flammable Limits	LOWER: 6% UPPER: 36.5% (methanol)
Products of Combustion	These products are carbon oxides (CO, CO2). Some metallic oxides.
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks, of heat, of combustible materials.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder.
Special Remarks on Fire Hazards	CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME. Explosive when mixed with Choroform + sodium methoxide and diethyl zinc. It boils violently and explodes.

## Section 6. Accidental Release Measures

Small Spill Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and Storage			
Precautions	Keep away from sources of accidental ignition. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.		
Storage	Keep in HazCat Kit.		
Section 8. Exposure Controls/Personal Protection			
Engineering C	Controls Use in a well ventilated area.		
Personal Protec	ection Gloves and goggles.		

#### Cobalt Test

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Section 9. Physical and C	hemical Properties			
Physical State and Appearance	Clear liquid	Volatility	Not availab	le.
Molecular Weight	Not available	Odor Threshold	Not availab	le
pH (1% Solution in Water)	Not available	Water/Oil Dist. Coeff.	Not availab	le.
Boiling Point	64.5°C (148.1°F) (methanol)	Ionicity (in Water)	Not availab	le
Melting Point	Not available	Dispersion Properties	See solubili	ty in water, methanol.
Critical Temperature	Not available	Solubility	Easily solub	le in water, methanol.
Specific Gravity	Not available	Odor	Alcohol like	2.
Vapor Pressure	Not available	Taste	Not availab	le.
Vapor Density	Not available	Color	Colorless.	
Section 10. Stability and	d Reactivity Data			
Stability	Product is stable.	Corrosivity		Non-corrosive in presence of glass.
Instability Temperature	Not available.	Special Remarks Not available. on Corrosivity		1 0
Conditions of Instability	Not available.	Polymerization		Will not polymerize.
Incompatability with Various Substances Special Remarks on Reactivity	<ul> <li>Highly reactive with oxidizing agents.</li> <li>Reactive with metals.</li> <li>Violent reaction with alkyl aluminum salts, acetyl bromide, chloroform + sodium methoxide, chromic anhydride, cyanuirc chlorite, lead perchlorate, phosphorous trioxide, nitric acid. Exothermic reaction with sodium hydroxide + chloroform. Incompatible with beryllium dihydride, metals (potassium and magnesium), oxidants (barium perchlorate, bromine, sodium hypochlorite, chlorine, hydrogen peroxide), potassium tert-butoxide, carbon tetrachloride, metals (aluminum, magnesium, zinc), and dichlormethane. May attack some plastics, rubber, and coatings.</li> </ul>			
Section 11. Toxicological Information				
Route of Entry Toxicity to Animals Chroinc Effects on Humans	inimalsoral toxicity (LD50): 5628 mg/kg (Rat.). Acute dermal toxicity (LD50): 15800 mg/kg (Rabbit.). Acute toxicity of the vapor (LC50): 64000 4 hours (Rat.). Sodium thiocyanate: Acute oral toxicity (LD50): 362 mg/kg (Mouse). Very hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).			
	DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/fen Development toxin [POSSIBLE]. Causes damage to the following organs: the nervous system, gastrointestinal			ive system/toxin/female,

Causes damage to the following organs: the nervous system, gastrointestinal tract, eyes. May cause damage to the following organs: blood, kidneys, lungs, the reproductive system, liver, heart, brain, cardiovascular system, skin, central nervous system (CNS), pancreas. Causes damage to the following organs: lungs, mucous membranes.

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Other Toxic Effects on Humans

Special Remarks on Toxicity to AnimalsNot available.Special Remarks on Chronic Effects on HumansNot available.Special Remarks on Other Toxic Effects on HumansNot available.

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Section 12. Ecological Inform	nation			
Ecotoxicity		Not available.		
BOD5 and COD		Not available.		
Products of Biodegradation		Possibly hazardous short term degradation products are not likely. However, long term degradation products mayarise.		
Toxicity of the Products of Biodegrad	dation	The products of degradation are more toxic.		
Special Remarks on the Products of I	Biodegradation	Not available.		
Section 13. Disposal Conside	erations			
Waste Disposal Recycle to j	process, if possible. (	Consult your local or regional authorities.		
Section 14. Transport Inform	ation			
DOT Classification CLASS 3: F	lammable liquid.			
Identification Methanol, 3	Methanol, 3, UN1230, II			
Special Provisions Not available. for Transport				
Section 15. Other Regulatory	<sup>7</sup> Information and	d Pictograms		
Federal and State Regulations	Pennsylvania RTH Minnesota: Meth Massachusetts RT New Jersey: Meth California Directo Tennesse Hazardo TSCA 8(b) invent SARA 313 toxic o CERCLA: Hazardo	yl alcohol K: Methyl alcohol		
California Proposition 65 Warnings Other Regulation Other classifications	EINECS: This pr WHMIS (Canada CLASS D-1A: Ma CLASS D-2A: Ma CLASS D-1B: Ma DSCL (EEC)	as by definition of Hazard Communication Standard (29 CFR 1910.1200). oduct is on the European Inventory of Existing Commercial Chemical Substances. a) CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). aterial causing immediate and serious toxic effects (VERY TOXIC). aterial causing other toxic effects (VERY TOXIC). aterial causing immediate and serious toxic effects (TOXIC). R11- Highly flammable. R23/24/25- Toxic by inhalation, in contact with skin R22- Harmful if swallowed. R36/38- Irritating to eyes and skin.		

## Section 16. Other Information

Part Number(s)	RE2029
References	Not available.
Other Special Considerations	Not available.
Validated by	R. Houghton 10/9/02
Verified by	R. Turkington
Call 1-800-543-5487	

#### Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Haztech Systems, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.